Title (en)

SHAPED COOLING PASSAGES FOR TURBINE BLADE OUTER AIR SEAL

Title (de)

GEFORMTE KÜHLKANÄLE FÜR AUSSENDICHTUNG FÜR EINE TURBINENSCHAUFEL

Title (fr)

PASSAGES DE REFROIDISSEMENT FORMÉS POUR JOINT D'AIR EXTÉRIEUR D'AUBE DE TURBINE

Publication

EP 3246533 B1 20230628 (EN)

Application

EP 17171827 A 20170518

Priority

US 201615157857 A 20160518

Abstract (en)

[origin: EP3246533A1] A core assembly (72) for fabricating an air cooled engine component (62) for a gas turbine engine includes an end portion (80A,B) for defining passages (70) within a side of an engine component (62). The end portion (80A, B) defines a first cross-section. A middle portion (82) is spaced apart from the end portion (80A, B) and defines passages through a middle part (76) of the engine component (62). The middle portion (82) defines a second cross-section. One of the first cross-section and the second cross-section includes a first height greater than a second height.

IPC 8 full level

B22C 9/10 (2006.01); **F01D 25/12** (2006.01)

CPC (source: EP US)

B22C 9/103 (2013.01 - EP US); **F01D 5/06** (2013.01 - US); **F01D 11/08** (2013.01 - US); **F01D 25/12** (2013.01 - EP US); **F02C 3/04** (2013.01 - US); F05D 2220/32 (2013.01 - US); F05D 2230/21 (2013.01 - EP US); F05D 2240/11 (2013.01 - EP US); F05D 2240/35 (2013.01 - US); F05D 2260/232 (2013.01 - US); Y02T 50/60 (2013.01 - EP)

Citation (examination)

- EP 1965033 A2 20080903 - UNITED TECHNOLOGIES CORP [US]
- US 5649806 A 19970722 - SCRICCA JOSEPH A [US], et al
- EP 1905958 A2 20080402 - UNITED TECHNOLOGIES CORP [US]
- WO 2015130380 A2 20150903 - UNITED TECHNOLOGIES CORP [US]
- EP 1990507 B1 20150415 - IHI CORP [JP], et al

Cited by

EP3533532A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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EP 3246533 A1 20171122; **EP 3246533 B1 20230628**; US 11193386 B2 20211207; US 2017335706 A1 20171123

DOCDB simple family (application)

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